

FORM PCT 1390  
REV. 5/93

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NO

MOISEEV ET-AL.-1 (PCT)

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO (if known, see 37 CFR 1.5)

09/857738

INTERNATIONAL APPLICATION NO.  
PCT/RU99/00348INTERNATIONAL FILING DATE  
22 SEPTEMBER 1999PRIORITY DATE CLAIMED  
3 FEBRUARY 1999TITLE OF INVENTION  
INFORMATION SYSTEMAPPLICANT(S) FOR DO/EO/US  
BORIS MOISEEV ET AL.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☐ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau) (IN ENGLISH)
  - b. ☐ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has **NOT** expired.
  - d. ☐ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11. to 16. below concern other document(s) or information included:**

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.  
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:

PCT/ISA/210 - Int'l. Search Report (English)  
1 sheet of formal drawingsApplicant Claims Priority under 35 U.S.C. §119 of Russian Application No. RU 99102076 filed February 3, 1999.  
Applicant Claims Priority under 35 U.S.C. §120 of: PCT/RU99/00348 filed September 22, 1999.

APPLICATION NO. (if known, see 37 CFR 1.5)				INTERNATIONAL APPLICATION NO PCT/RU99/00348	ATTORNEY'S DOCKET NO MOISEEV ET AL PCT
09/857738				CALCULATIONS	PTO USE ONLY
<input checked="" type="checkbox"/> The following fees are submitted: <b>Basic National Fee (37 CFR 1.492(a)(1)-(5)):</b> Search Report has been prepared by the EPO or JPO.....\$860.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) .....\$690.00 Neither international preliminary examination fee paid (37 CFR 1.82) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$1,000.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4).....\$100.00 <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				\$ 1,000.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than ____ 20 ____ 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					
Claims	Number Filed	Number Extra	Rate		
Total Claims	20 - 20 =	- 0 -	X \$18.00	\$	
Independent Claims	1 - 3 =	- 0 -	X \$80.00	\$	
Multiple dependent claim(s) (if applicable)			+ \$270.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 1,000.00	
Re by 1/2 for Small Entity status.				\$ 500.00	
<b>SUBTOTAL =</b>				\$ 500.00	
P: fee of \$130.00 for furnishing the English translation later than ____ 20 ____ 30 n: om the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				\$ 500.00	
F: according the enclosed assignment (37 CFR 1.21(h)). The assignment must be a: nished by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					
<b>TOTAL FEES ENCLOSED =</b>				\$ 500.00	
				Amount to be refunded	\$
				charged	\$

Applicant claims Small Entity status.

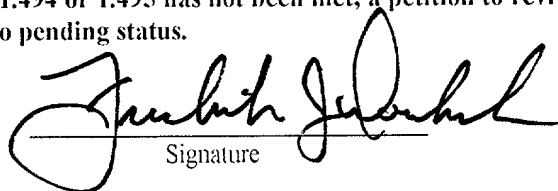
A check in the amount of \$ 500.00 to cover the above fees is enclosed.

Please charge my Deposit Account No. 03-2468 in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 03-2468. A duplicate copy of this sheet is enclosed

**NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.**

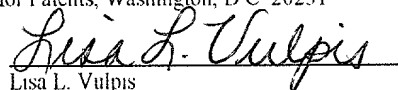
SEND ALL CORRESPONDENCE TO:  
COLLARD & ROE, P.C.  
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Signature

Frederick J. Dorchak  
Reg. No. 29,298

Express Mail No. **EL 769 392 257 US**  
Date of Deposit June 8, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the date indicated above, and is addressed to the Ass't. Commissioner for Patents, Washington, D.C. 20231

  
Lisa L. Vulpis

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: BORIS MOISEEV ET AL. - 1 (PCT)  
PCT NO.: PCT/RU99/00348  
FILED: SEPTEMBER 22, 1999  
TITLE: INFORMATION SYSTEM

PRELIMINARY AMENDMENT

**BOX PCT**

Ass't. Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Preliminary to the initial Office Action, please amend the  
above-identified application as follows:

IN THE SPECIFICATION:

On Page 1, above line 1, please insert the following  
paragraphs:

--CROSS REFERENCE TO RELATED APPLICATIONS

Applicants claim priority under 35 U.S.C. §119 of Russian  
Application No. 99102076 filed February 3, 1999. Applicants also  
claim priority under 35 U.S.C. §120 of PCT/RU99/00348 filed  
September 22, 1999. The international application under PCT  
article 21(2) was published in English.--

**IN THE CLAIMS:**

Please cancel claims 1-20 and replace them with new claims 21-40 as follows:

--21. The information system including at least one user's device connected via a connection unit to a memory device for storing information, characterized by including into said system a device for generating a set of requested information and advertising information, connected to the memory device for storing information and to the connection unit, and comprising an entry for inputting the advertising information.

22. The system as claimed in claim 21, characterized by including into said system an advertising information memory device, connected to said entry of said device for generating.

23. The system as claimed in claim 21, characterized by that said device for generating being implemented in the microprocessor.

24. The system as claimed in claim 21, characterized by that said device for generating being implemented in order to allow change of consequence of providing requested information and/or advertising information.

25. The system as claimed in claim 21, characterized by said device for generating being implemented in order to allow

video display presentation of requested information and/or advertising information.

26. The system as claimed in claim 25, characterized by said device for generating being implemented in order to allow simultaneous video display of requested and advertising information.

27. The system as claimed in claim 21, characterized by said device for generating being implemented in order to allow presentation of visual requested information and acoustic advertising information.

28. The system as claimed in claim 21, characterized by said device for generating being implemented in order to allow printing requested information.

29. The system as claimed in claim 21, characterized by the user's device being implemented as a personal computer.

30. The system as claimed in claim 21, characterized by the user's device being implemented as a telephone or a videophone or a radiophone.

31. The system as claimed in claim 21, characterized by the user's device being implemented as a remote control.

32. The system as claimed in claim 31, characterized by the device for generating a set of requested information and advertising information being implemented as an information display board.

33. The system as claimed in claim 31, characterized by the connection unit being implemented as a multiplexer.

34. The system as claimed in claim 31, characterized by the connection unit being implemented as communication network or telecommunication network.

35. The system as claimed in claim 34, characterized by communication network being telephone network.

36. The system as claimed in claim 35, characterized by telephone network being cellular telephone radio network.

37. The system as claimed in claim 34, characterized by telecommunication network being wide area network.

38. The system as claimed in claim 34, characterized by telecommunication network being the Internet network.

39. The system as claimed in claim 21, characterized by said device for generating a set of requested and advertising

information being implemented in order to allow a choice of advertising information type.

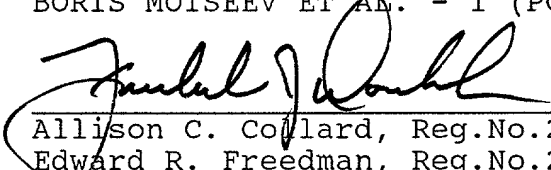
40. The system as claimed in claim 34, characterized by the memory device for storing information being implemented as a server.--

**REMARKS**

By this Preliminary Amendment, the application has been amended to conform with U.S. practice, the cross-reference to related applications has been inserted on page 1 and claims 1-20 have been canceled and replaced with new claims 21-40. No new matter has been introduced. Entry of this amendment is respectfully requested.

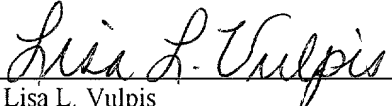
Respectfully submitted,  
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Attorneys for Applicants

Express Mail No. EL 769 392 257 US  
Date of Deposit June 8, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above, and is addressed to the Ass't. Commissioner for Patents, Washington, D.C. 20231

  
Lisa L. Vulpis

## INFORMATION SYSTEM

### FIELD OF THE INVENTION

The present invention pertains to the field of information systems, inquiry and information devices and/or systems providing information to a user according to his request and in which an advertising set can be integrated.

### BACKGROUND OF THE INVENTION

There is a well-known system for providing an advertising information containing an ultrasonic transmitter installed in a shop, directed to the area where a potential customer might be. Any moving object within the area of coverage of the receiver reflecting ultrasonic waves of the transmitter causes change in the ultrasonic receiver condition. The monitor connected to said receiver selects the signal indicating change in the ultrasonic receiver condition by means of the comparator, turns on the videocassette player to play on the TV or Display screen a videotape containing advertising (GB 2146821 A, GO9 F 27/00, 24.04.85). There are analogous well-known audio-visual systems registering appearance of a potential user of advertising and including audio-visual devices containing advertising information (EP 0421941 A, GO9 F 27/00, 10.04.91, GB 2270585 A, GO9 F 27/00, 16.03.94).

At present demonstration of advertising is also provided through telecommunication networks, for instance through the Internet (Honicatt Jarry, Internet, second edition, Kiev-Moscow, Dialektika, p.20-24, fig.1.1), where the USA Today Web-page is available containing all indispensable news updated within the day; and where it is visible that Microsoft Corp. is one of many sponsors maintaining Yahoo (see the same, fig.1.2). However, in said source there are no technical means for implementing this kind of advertising.

The closest to the proposed in its technical entity is the information system intended for transmitting the information requested by its user as well as advertising information, including at least one user's device for storing information (see EP 0337539 A2, GO9 F 27/00, 18.10.89), the indicated memory device (mem) also stores advertising information.

The well-known system is intended for transmitting the information requested by the user, stored in the memory device alongside with the advertising message.

The system includes many points for providing visual information. The user's device is implemented as a telephone and connected to an information-mapping device implemented as a monitor screen and so on.

The user requires the information he is interested in on the phone, the computer converts the user's inquiry into the information retrieval signal, which is sent from the memory device to the screen. The items for providing information (distributors) may also be connected to the communication network to increase and to provide periodical data refresh through computer devices.

The disadvantage of this system is that said items for providing information are situated in a specific location, whereas it is convenient to situate the user's device, for instance, at home, at the office, e.t.c.



In the well-known information system information and advertising message are transmitted from the above mentioned memory device only in one information providing mode whereas it is sometimes necessary to change the mode for providing a requested information as well as the advertising message, that is, for instance, to transmit either a piece of information message then a piece of advertising message, or the whole advertising, or to provide the information and advertising simultaneously. Moreover, in the system the choice of advertising type, for instance, according to the user's request is not available, that is in the well-known systems advertising is dictated.

## REVEALATION OF THE INVENTION

The purpose of this invention is to increase the functional capacities of the system as well as the number of technical means used for providing the requested information as well as advertising.

This system allows to use the above-mentioned means in any convenient location and not in specific locations such as at home, at work or on the road using various communication networks, the system allows information to be provided according to any mode suitable for it, or enables the user to select the type of advertising information he is interested in. This system can further provide a portion of the information and/or a portion of the advertising to various sequences, and is further capable of providing information and advertising simultaneously, which is convenient for the user. This system can further provide information in a visual form, as acoustic information or in a printed form. As the system here can be used a telecommunication network, the Internet network, that is the global network, as well as ordinary inquiry information display boards installed in common places. The introduction of advertising information into the information set will further allow to get extra financial means for development of inquiry information systems and to improve the quality of the information, provided by the network.

The said purpose is achieved by that this information system including at least one user's device connected via a connection unit to a memory device for storing information includes a device for generating a set of requested information as well as advertising information wherein said device is connected to the memory device for storing information and to the connection unit and comprises an entry for inputting the advertising information.

Moreover, the advertising information memory device connected to said entry of the above-mentioned device for generating, which can be implemented on the microprocessor, can be input into this system.

The above-mentioned device for generating may be implemented with a possibility to change the consequence of providing the requested information and/or advertising information.

Also said device for generating may be implemented with a possibility to provide video display of the requested and/or advertising information.

The indicated device for generating may also be implemented to allow simultaneous video display of the requested information and advertising information.

The above indicated device for generating may also be implemented to allow visual requested information and audio advertising information providing.

Furthermore, said device for generating may be implemented to allow requested information printing.

Furthermore, the user's device may be implemented as either a personal computer or telephone, or video telephone, or radiotelephone.

Furthermore, the system allows implementing a user's device as a remote control.

In this case the device for generating a set of requested and advertising information is implemented as an information display board.

The connection unit may be implemented as multiplexer, or connection network, or telecommunication network.

In this case a connection network may be a telephone network, for instance, a cellular telephone network or the wide area network.

The Internet network may represent a telecommunication network.

The device for generating a set of requested and advertising information may be implemented so that to allow a choice of advertising information types.

The memory device for storing information may be implemented as a server, if networks (telecommunication, wide area network, Internet) are used as a connection unit.

## **BRIEF LIST OF FIGURES**

Fig.1 shows an example of a system functional scheme, Fig.2 shows required and advertising information being arranged simultaneously on the user's device display screen, Fig.3 shows an example of the system implementation as an inquiry information display board.

## **THE PREFERRED VERSION OF THE SYSTEM IMPLEMENTATION.**

The present system includes user's devices 1 implemented, for instance, as a personal computer. There may be a lot of said devices, that is, for instance, in case if a personal computer has an access to a communication network, telephone network, telecommunication network of the Internet type and so on. The user's device may be represented by telephone, video telephone or remote control. The user's devices 1 are intended for forming a request according to the information the user is interested in. They may be implemented in order to allow information display, for instance, on a user's personal computer display screen and so on. Said user's devices 1 are connected to the connection unit 2. Said connection unit 2 may be, as it is mentioned above, implemented as a communication network, telephone network, wide area network e.t.c. Said unit, in case if the system is represented by an information board, may be represented by an ordinary multiplexer (bank switching), which according to command signals, input from the user's device 1 control panel, outputs information on to the device board 3 for generating a set of requested and advertising information.

Connection unit 2 is intended for connection through well-known means or lines of communication of the user and the memory device 4 for storing information (mem), which stores requested information but also allows to store information of any kind and of different purpose of data base.

In case of implementation of the present system on the basis of telecommunication networks, mem 4 presents a server where the information provided according to the user's request is stored.

In difference to well-known networks where a server transmits the information the user is interested in according to his request without conversation, that is the way it is stored in the server, this system allows using the device 3 for generating a set of requested and advertised information before it is provided to the user.

The memory device (mem) 5 is connected to the entry 6 for inputting advertising information, of said device 3 for generating an information set which may be implemented on a microprocessor, to the information bus (entry 7) of said microprocessor where the requested information is transmitted from the server, to the other entry 6 of said information bus an advertising information is transmitted.

An advertising information can be input from the keyboard using an input unit (that is not shown in the figure) or using the advertising information memory device. In this case different modes of input of requested as well as advertising information can be included using software environment of the microprocessor.

The microprocessor device 3, for instance a microcontroller, for generating a set of information is intended for unifying the user's requested information from mem 4 and advertising information coming from mem 5 or directly from the keyboard. The said device is also intended for generating a mode for transmitting this or that information according to procedures included in the device. The procedures can be the following:

The first element of the information set is advertising, then requested information.

The first element of the information set is represented by a list of different types of advertising or a list of different fields of technique or knowledge about which where is an advertising information provided e.t.c.

The procedure may implement simultaneous presentation if the requested information and advertising e.t.c.

After the advertising information and the requested information have been combined according to the specified procedure, this set is transmitted to its user through the connection set 2 (through a network).

If the user has a possibility to choose the advertising he is interested in, the system can work in a mode of a dialog: the user forms a requested information; the information is to be found in mem 4; the message is transmitted through the device 4 informing that the requested information is available, a list of advertising services is then transmitted; the user chooses the advertising service he is interested in, sends the answer to the network and receives a set of requested information and the type of advertising information according to the user's choice corresponding to the mode of providing information.

The present system may also be implemented as an inquiry information display board, for instance as a monitor screen or an ordinary display board. In this case the user forms a requested information he is interested in using a key remote control (device 1), the converter (that is not shown in the figure) converts from the remote control input command into the signal corresponding to the object of the request, the connection unit 2 (for instance, a multiplexer) plugs in the necessary memory cell mem 4, where the requested information is stored, the advertising information is then shown simultaneously or before the requested information is presented on a display board of the device 3.

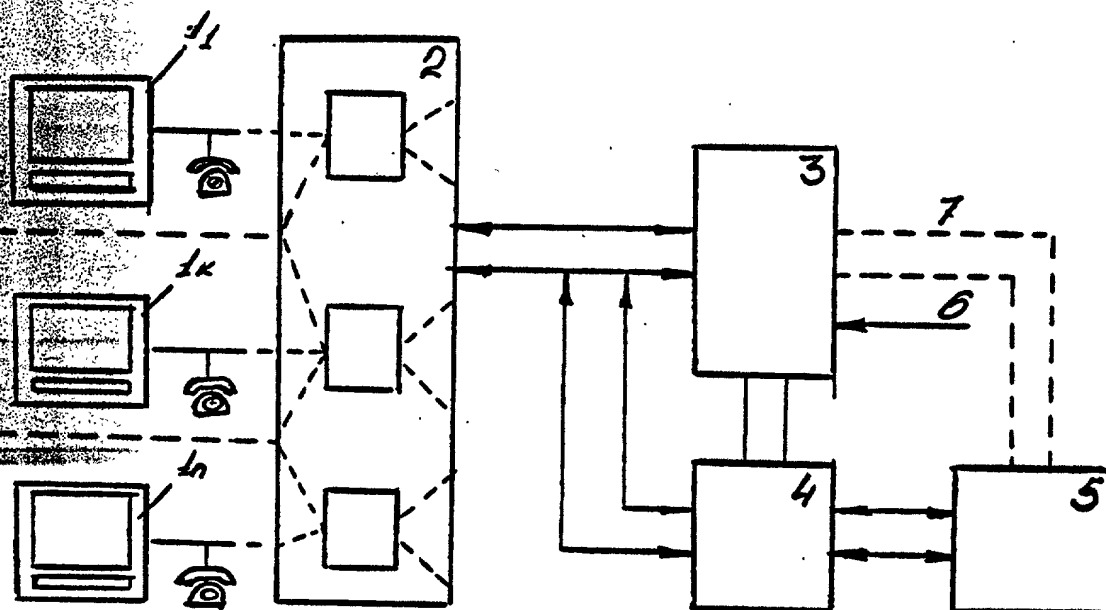
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## INDUSTRIAL APPLICABILITY

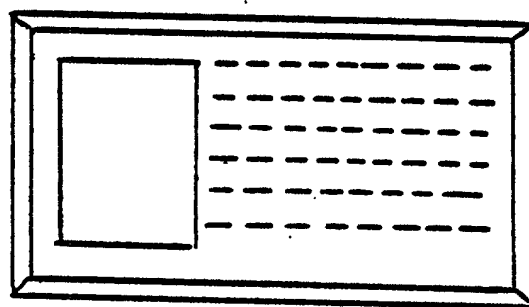
## CLAIMS

1. The information system including at least one user's device connected via a connection unit to a memory device for storing information, characterized by including into said system a device for generating a set of requested information and advertising information, connected to the memory device for storing information and to the connection unit, and comprising an entry for inputting the advertising information.
2. The system as claimed in point 2., characterized by including into said system an advertising information memory device, connected to said entry of said device for generating.
3. The system as claimed in point 1. and point 2., characterized by that said device for generating being implemented in the microprocessor.
4. The system as claimed in any of point 1-3, characterized by that said device for generating being implemented in order to allow change of consequence of providing requested information and/or advertising information.
5. The system as claimed in any of points 1-4, characterized by said device for generating being implemented in order to allow video display presentation of requested information and/or advertising information.
6. The system as claimed in point 5, characterized by said device for generating being implemented in order to allow simultaneous video display of requested and advertising information.
7. The system as claimed in any of points 1-4, characterized by said device for generating being implemented in order to allow presentation of visual requested information and acoustic advertising information.
8. The system as claimed in any of points 1-4, characterized by said device for generating being implemented in order to allow printing requested information.
9. The system as claimed in any of points 1-8, characterized by the user's device being implemented as a personal computer.
10. The system as claimed in any of points 1-8, characterized by the user's device being implemented as a telephone or a videophone or a radiophone.
11. The system as claimed in any points 1-8, characterized by the user's device being implemented as a remote control.
12. The system as claimed in point 11., characterized by the device for generating a set of requested information and advertising information being implemented as an information display board.
13. The system as claimed in point 11 or point 12, characterized by the connection unit being implemented as a multiplexer.
14. The system as claimed in point 11 or point 12, characterized by the connection unit being implemented as communication network or telecommunication network.
15. The system as claimed in point 14., characterized by communication network being telephone network .
16. The system as claimed in point 15, characterized by telephone network being cellular telephone radio network.
17. The system as claimed in point 14, characterized by telecommunication network being wide area network.

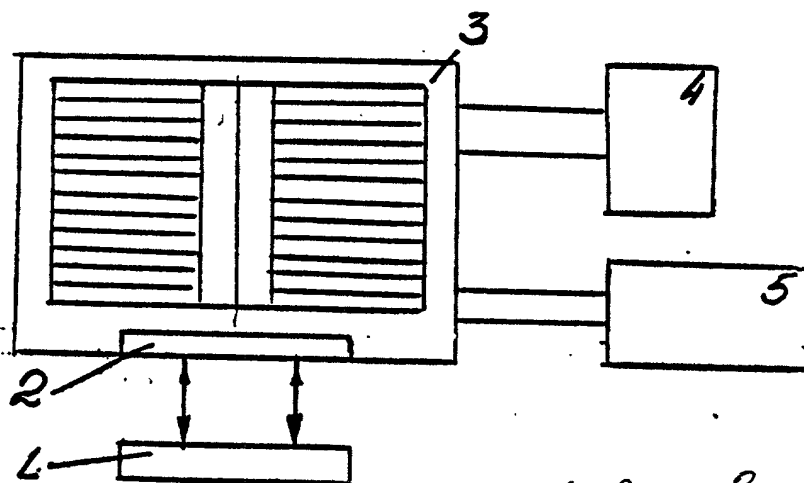
18. The system as claimed in point 14, characterized by telecommunication network being the Internet network.
19. The system as claimed in points 1-18, characterized by said device for generating a set of requested and advertising information being implemented in order to allow a choice of advertising information type.
20. The system as claimed in points 14, 15, 17, 18, characterized by the memory device for storing information being implemented as a server.



Фиг. 1 / fig. 1



Фиг. 2 / fig. 2



Фиг. 3. / fig. 3

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**INFORMATION SYSTEM**

the specification of which (check only one item below):

☐ is attached hereto.

☐ was filed as United States application

Serial No. \_\_\_\_\_

on \_\_\_\_\_,

and was amended

on \_\_\_\_\_ (if applicable).

☒ was filed as PCT international application

Number PCT/RU99/00348

on SEPTEMBER 22, 1999,

and was amended under PCT Article 19

on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY (if PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. 119
RUSSIA	RU 99102076	3 FEBRUARY 1999	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO



<b>COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY</b> <small>(Includes Reference to PCT International Applications)</small>				<b>ATTORNEY'S DOCKET NUMBER</b> <b>MOISEEV ET AL-1 PCT</b>	
I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclose in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:					
<b>PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:</b>					
U.S. APPLICATIONS			STATUS (Check One)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			
<b>POWER OF ATTORNEY:</b> As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration numbers): <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div>             KURT KELMAN, Registration No. <u>18,628</u>              ALLISON C. COLLARD, Registration No. <u>22,532</u>;              EDWARD R. FREEDMAN, Registration No. <u>26,048</u>;              ELIZABETH COLLARD RICHTER, Registration No. <u>35,103</u> </div> <div>             FREDERICK J. DORCHAK, Registration No. <u>29,298</u>              WILLIAM C. COLLARD, Registration No. <u>38,411</u>              REINE H. GLANZ, Registration No. <u>46,728</u> </div> </div>					
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.					
SIGNATURE OF INVENTOR 201		SIGNATURE OF INVENTOR 202		SIGNATURE OF INVENTOR 203	
DATE		DATE		DATE	
<u>03.05.2001</u>		<u>08.03.2001</u>		<u>03.05.2001</u>	